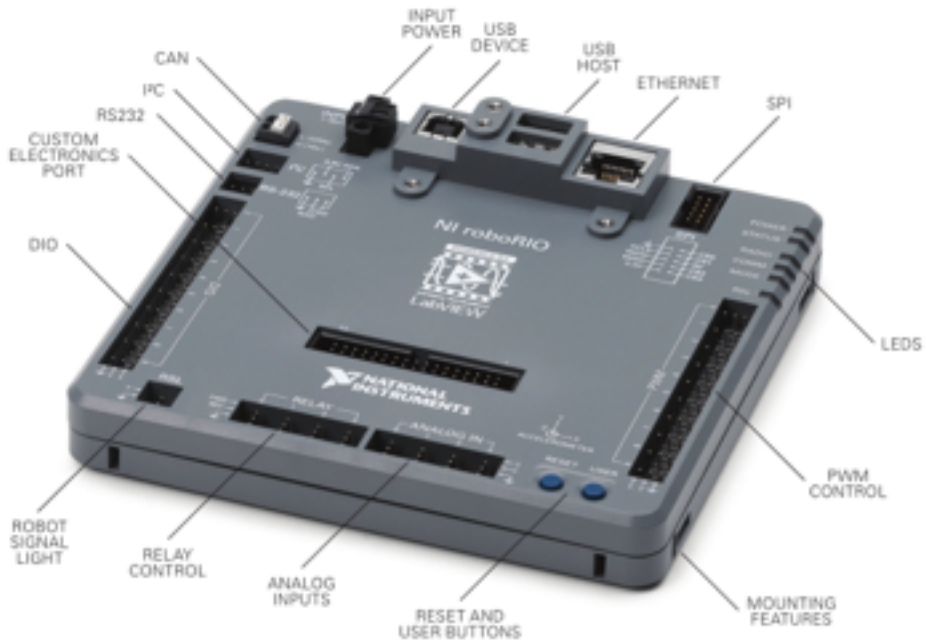
# FIRST Robotics Competition

FRC Team 2643 - Dark Matter

## What is demonstrated

**National Instruments roboRIO**




The NI roboRIO is the controller for the FIRST Robotics Competition

## Hardware Information

Processor - Dual-Core ARM Cortex™-A9 at 667 MHz
System Memory - 256 MB RAM
Storage Memory - 512 MB NAND
Operating System - Linux with real-time extensions
Language Support - LabVIEW, C++, Java

## Implementation

RECYCLE rush

A game played by six robots
Score points by:
- stacking totes
- stacking recycling containers
- recycling litter

GLaDOS can score points by using:

- Gyroscope feedback for autonomous straight driving
- Various Victor and Talon Motor Controllers
- PWM and Analog Inputs

## Source code or detail technical information availability

- http://www.usfirst.org/roboticsprograms/frc
- www.team2643.com

See us compete at San Jose State University on April 3rd and 4th!!